

SLD broadband light source

ASE / SLD BROADBAND SOURCES



The SLD (Superluminescent Diode) broadband light source employs a superluminescent semiconductor diode light-emitting chip, which outputs a broadband spectrum with low coherence and simultaneously possesses a high output optical power spectral density. Its operating wavelengths can be selected from bands such as O, S, C, L, and others, making it suitable for applications such as optical OCT (Optical Coherence Tomography) and optical fiber sensing.

- Ultra-wide spectrum
- Fiber optic sensing
- Low spectral ripple
- Medical Imaging
- Spectral Flatness
- Fiber optic device testing

Specifications

Parameter	Specification
Central Wavelength (nm)	850/1310/1400/1450/1470/1500/1550/1610/1650
Total output power (mW)	1/5/10
Spectral power density (dBm/nm)	≥-25
Spectral Ripple (dB)	<0.2
Short-term stability (15 minutes) (dB)	≤ ±0.02
Long-term stability (8 hours) (dB)	≤ ±0.05
Extinction Ratio PER (dB)	≤ 0.2
Optical fiber and connectors	Single-model fiber, FC/ APC

* Total output power: Default non-adjustable

* Short-term stability (15 minutes): Equivalent ≤ ± 0.5%

* Long-term stability (8 hours): Equivalent ≤ ± 1.2%

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.